



STATE OF WASHINGTON  
DEPARTMENT OF REVENUE

December 28, 2001

**TO:** All County Assessors

**FROM:** Mark J. Maxwell, Valuation Advisory Program Manager and  
Neal R. Cook, MAI, Personal Property Supervisor  
Property Tax Division

**SUBJECT: 2002 PERSONAL PROPERTY VALUATION GUIDELINES  
FOR ASSESSING PROPERTY AS OF JANUARY 1, 2002**

This memorandum and the enclosures comprise the 2002 Personal Property Guidelines. Enclosed are the 2002 Personal Property Valuation Percent Good Indicators and the Index to Personal Property Indicators. These valuation indicators are published as a guide to assist counties in estimating 2002 assessed values for tangible personal property. These indicators may also be used to estimate the value of real property when M&E is affixed to real property and/or is most appropriately valued based on the trend and economic lives associated with assets listed in the index and delineated on the Percent Good Table. Do not use these guidelines for industries and property having specific guidelines and trends contained in the Industrial Valuation Schedule. The Department of Revenue (DOR) recommends that these guidelines be considered in the valuation process, believing their use will improve statewide standardization in the assessment of personal property.

To use these guidelines:

1. Refer to the alphabetical Index for the class or type of property.
2. For identified classes of property, the Index will refer you to the appropriate column of the Valuation Indicator table.
3. The multiplier appearing in the column corresponding with the acquisition year multiplied by the historical or original cost provides an estimated value as of January 1, 2002. The historical or original cost listed by the taxpayer should include freight and installation, trade-in value, and any other cost related to putting the equipment into service, excluding sales tax.

It should be noted that application of these guidelines is intended to estimate the value of property that is "in use." The minimum value percent or factor, 20% unless otherwise noted, shown on the combined tables is intended to reflect the value of assets in use for as long as they are in use. Hence, the factors are applied to the historical or original cost, which includes both hard and soft costs (i.e., interim financing during installation or construction, engineering, freight and installation, etc.). The only exclusion is that the sales tax is to be removed when valuing personal property. Should assets be installed in such a way that they become fixed to the real property and/or their removal would cause significant damage to the real property, the assets should be regarded as real property. As real property, the sales tax should be included as a cost that adds value to the assets.

### **Items Marked With Asterisks**

The Personal Property Valuation Indicators may not be applicable in all instances in achieving the statutory mandate of 100% true and fair value. These valuation indicators are published as a guide in estimating market value, but they do not include any consideration for abnormal or extraordinary obsolescence that may be relevant in specific circumstances or markets. When unique situations are identified, these factors should be considered separately and in addition to the value indications of the tables. Based on information available to the Department of Revenue at the time these tables were published, property classes listed in the Index which may require special consideration due to abnormal or extraordinary circumstances have been noted with a **single asterisk (\*)**. Some properties in the Index are shown with a **double asterisk (\*\*)**, and it is our opinion that these properties, in their entirety, are best valued using the Industrial Valuation Schedules or the 7.5% column of the Personal Property Valuation Indicators.

Other properties in the Index shown with a **triple asterisk (\*\*\*)** indicate the specific column to use, which is 7.5. This indicates the existence of more complex issues, such as: determining which components are personal property, real property, or machinery & equipment that should be valued by using either the 7.5 column from the Personal Property Indicators or the 7.5% Average M&E Industrial Valuation Schedule. The determinations made in using either schedule require the appraiser or auditor's professional judgement and are based on the use and expected economic life of the equipment. Physical inspection of this machinery & equipment is highly recommended. (While the trend factors used to develop the Personal Property Indicators and Industrial Valuation Schedules differ, the results do not differ significantly, so either the 7.5 column or the 7.5% Average M&E schedule may be used from the respective guidelines and tables.)

### **CHANGES TO THE GUIDELINES FOR 2002**

Several other changes have been made to the Index to Personal Property Valuation Indicators for 2002. These changes are based on internal DOR studies, surveys, table and rate calibration

analysis, and category reviews of varying scope. In some cases, the previous recommendations are verified or confirmed as appropriate, and no change is recommended.

The most significant change is the inclusion of two different trend factors, Trend I and Trend II, on the Combined Table and one “percent good” table that excludes any trend. The Combined Table has percent good factors and Trend I developed as in the past. However, the far right columns recommend the use of a different trend (Trend II) and column rate for Personal Computers and Peripherals and for High Tech M&E.

The Trend II factors are intended for use in valuing any asset or asset group that the replacement or reproduction cost new (RCN) has declined from what it had been in past years. This includes, and may not be limited to: Computers and Peripherals, Printed Circuit Board M&E, Silicon Wafer Fabrication M&E, and related High Tech Industry Product Assembly and Process Support Equipment.

In order to utilize Trend II, the auditor/appraiser MUST determine that replacement or reproduction costs (RCN) of the property being appraised have been declining in line or similarly to that of Computer and Peripherals and High Tech M&E as indicated by the trend factor. When the appropriate trend, Trend I or Trend II, factor is determined, the economic life of the asset, without regard to additional obsolescence factors, must be estimated. The Combined Table includes a row that shows the economic life applicable to each of the columns. Select the life that is most appropriate for the asset and utilize the percent good factor from the corresponding column and row to determine the estimated value. Extraordinary obsolescence that can be documented may be deducted from the value estimate to arrive at the Market Value. **Do not use Trend II to estimate the value of an asset when the cost of replacing the asset with a new asset is greater than it was in prior years. Only assets that have had a declining Cost New may be valued using Combined Table Trend II. This Trend MUST not be used as a means to reduce the value because of any form of obsolescence other than a decline in the RCN.**

Trend II may also be appropriately applied to **Computer and High Tech Spare Parts**. When the RCN of these parts is declining, the reduction in value should be recognized in the appraisal process. The historical cost times the trend factor will reduce the value from year to year due to the declining nature of the trend.

### **Merged or Eliminated Columns**

Several columns had very few business activities or property types within them. Therefore, we have merged these items into the next higher column and found it makes very little difference to the indicated value. Merged items and column indications are as follows:

<b>Signs - Electronic</b>	<b>from Column 15</b>	<b>to Column 16</b>
<b>Theater - F&amp;F and Search Lights</b>	<b>from Column 17</b>	<b>to Column 18</b>

**Column 40 has been eliminated and replaced by Column 38.5.** In addition, an alternate trend factor, Trend II, is used to establish the percent good factors when using column 38.5.

### **VALUATION STUDIES AND CHANGES TO GUIDELINES**

The following is a list of categories in which the recommended column selection, trend, or minimum value percent has changed or has been reviewed and concluded that no change is needed. An Executive Summary outlining the reasons for changes that are not fully explained in this memo is available.

	<b><u>Trend</u></b>	<b><u>Column</u></b>	<b><u>Minimum %</u></b>
• <b>Personal Computers</b>	<b>II</b>	<b>38.5</b>	<b>2%</b>
• <b>Newspaper Printing Presses</b>	<b>I</b>	<b>10</b>	<b>20%</b>
• <b>Packing &amp; Sorting M&amp;E</b>			
<b>Non Specified M&amp;E</b>	<b>I</b>	<b>12</b>	<b>10%</b>
<b>Specified Components</b>			
Non- Electronic Components	<b>I</b>	<b>10</b>	<b>10%</b>
Electronic Components	<b>I</b>	<b>24</b>	<b>10%</b>
• <b>Cell/wireless telephone towers</b>	<b>I</b>	<b>7.5</b>	<b>20%</b>
<b>Towers with Antennae</b>	<b>I</b>	<b>12</b>	<b>20%</b>
<b>Antennae only</b>	<b>I</b>	<b>24</b>	<b>20%</b>
• <b>Propane Tanks</b>	<b>I</b>	<b>12</b>	<b>20%</b>
• <b>High Tech Manufacturing Equipment</b>			
Printed Circuit Board M&E	<b>II</b>	<b>30</b>	<b>5%</b>
Silicon Wafer Fabrication M&E	<b>II</b>	<b>25</b>	<b>5%</b>
Product Assembly M&E	<b>II</b>	<b>25</b>	<b>5%</b>
Process Support Equipment	<b>II</b>	<b>15</b>	<b>20%</b>
• <b>Grocery Store</b>	<b>No change needed, current method confirmed.</b>		
• <b>Garbage Dumpster</b>	<b>No change needed, current method confirmed.</b>		
• <b><u>Unlicensed Vehicles</u></b> (Not Subject to Vehicle Excise Tax)	has been revised on the Index because the excise tax on motor vehicles and trailers was repealed. This was the case as of January 1, 2001, but listed incorrectly in the Index. Motor vehicles and trailers, including fixed loads, are exempt when the vehicle is primarily designed for use on public streets and highways. The revision clarifies that <b>Unlicensed and Licensed Vehicles Including Trailers</b> (permanently sited and/or not primarily designed for use on public streets and highways) are taxable as either real or personal property, depending on how or whether the vehicle or trailer is affixed to the site.		

A Supplemental Valuation Schedule is also provided on the last page of the Index for video games, wine barrels, videotapes, laser disks and DVDs, billboards and poster panels, title plants, and computer software.

**Videotapes and Property Held or Owned for Short-Term Rental**

Videotapes and all other rental or rented assets are to be valued at their retail value (retail trade level). These may be new or used assets held for rent. In Fall 2001, a cursory survey of the price of videotapes indicated that the value of the average inventory of rental tapes has remained at no less than \$9.00 each. The Oregon Department of Revenue recommended \$11.00 for 2001 assessments on the same average inventory basis as required in Washington State. This value is intended to reflect the average per tape value for the entire inventory of tapes that remain in the rental inventory even though the value of any individual tape may be as little as \$5.00 or as much as \$25.00 to \$75.00 or more.

**What If I Have Questions?**

Any questions regarding these guidelines or other personal property tax issues may be directed to:

Name	Title	Phone Number	E-Mail Address
Neal Cook	Personal Property Supervisor	(360) 570-5881	<a href="mailto:NealC@dor.wa.gov">NealC@dor.wa.gov</a>

The Personal Property Valuation Indicators are posted on the Department's web site at [www.dor.wa.gov](http://www.dor.wa.gov). The Indicators can be accessed by clicking, **Property Taxes** (located on the left-hand side under Tax Topics), then **Publications** in the Fast Find Box on the right, then choose the **Personal Property Valuation Schedules** and select schedules for 2002. The Indicators are available in PDF format.

MJM/NRC:slc  
Enclosures

# INDEX TO PERSONAL PROPERTY VALUATION INDICATORS

For January 1, 2002 Valuations

## BUSINESS ACTIVITY OR TYPE OF BUSINESS

Use Trend I from Combined Table unless Trend II is indicated below

- A -	Trend/Column	- B -	Trend/Column
<b>Agriculture</b>		<b>Bakeries</b>	
<i>Aqua Farms</i>		<i>Industrial (i.e., Wonder Bread)</i>	** 7.5
<i>Nets</i>	30	<i>Commercial (i.e., Safeway)</i>	12
<i>Pens &amp; Support Structures</i>	18	<b>Banks</b>	
<i>Dairy Milking M&amp;E</i>	14	<i>Alarm Systems</i>	24
<i>Feed Mill M&amp;E (production line)</i>	*** 7.5	<i>Cash Machines</i>	24
<i>Feed Mill M&amp;E (portable)</i>	12	<i>Furniture &amp; Fixtures</i>	14
<i>Seed Cleaning M&amp;E</i>	*** 7.5	<i>Video Equipment</i>	24
<i>Seed Cleaning M&amp;E (portable)</i>	12	<i>Safety Deposit Boxes</i>	10
<i>Fertilizer Applicators &amp; Manure Systems-Liquid</i>	24	<i>Vault Doors</i>	(Value at Cost)
<i>Dry Fertilizer Applicators</i>	18	<b>Barber &amp; Beauty Shop</b>	16
<i>Tanks</i>	16	<b>Baseboard Heater Mfg. M&amp;E</b>	12
<i>M&amp;E (Excluding Tractors &amp; Dairy)</i>	18	<b>Beer Kegs</b>	10
<i>Irrigation Systems</i>		<b>Billboards</b>	(See Signs)
<i>Circles</i>	18	<b>Bleach Mfg. M&amp;E</b>	** 7.5
<i>Gated Pipe</i>	18	<b>Bleach Packaging M&amp;E</b>	14
<i>Wheel Moves &amp; Handlines</i>	16	<b>Blueprinting, Photostatting, Mimeographing &amp;</b>	
<i>Tractors</i>	12	<b>Lithograph (Non-electronic)</b>	16
<i>Combines</i>	20	<b>Boat Molds (Fiberglass)</b>	22
<b>Air Conditioning (Single Room Unit)</b>	16	<b>Book Bindery</b>	12
<b>Aircraft Manufacturing M&amp;E</b>	*** 7.5	<b>Bottling &amp; Soft Drinks Mfg. M&amp;E</b>	** 7.5
<b>Aircraft Manufacturing (small parts mfg.)</b>	14	<b>Bowling Alleys</b>	12
<i>Testing Equipment</i>	24	<i>Electronic Scoring Machines</i>	24
<i>Small Tools (Perishable)</i>	24	<i>Pinsetters &amp; Others</i>	19
<i>Patterns</i>	24	<b>Brewing &amp; Distilling</b>	** 7.5
<b>Aircraft Parts Manufacturing</b>		<b>Butcher Shops</b>	12
<i>M&amp;E</i>	14		
<i>Test Equipment</i>	24	- C -	
<i>Small Tools</i>	24	<b>C.A.T.V. &amp; S.A.T.V. Equipment</b>	
<b>Amusement Devices (Music Machines, etc.)</b>	24	<i>Signal Receiving Equipment</i>	12
<i>VCR's</i>	28	<i>Distribution Equipment</i>	14
<i>Video Games</i>	A	<i>Headend Equipment</i>	16
<i>Video Tapes</i>	A	<i>Converters, Decoders, Digital Boxes, Modems</i>	30
<b>Antique F&amp;F</b>	(Value at Cost)	<i>Electronic Testing Equipment and Small Tools</i>	24
<b>Apartment F&amp;F</b>	16	<i>Television Production Equipment</i>	19
<b>Apparel Mfg. M&amp;E</b>	8	<b>Cabinet Shop M&amp;E</b>	12
<b>Aqua Farms</b>		<b>Campground Equipment</b>	16
<i>Nets</i>	30	<b>Candy &amp; Confection Mfg. M&amp;E</b>	12
<i>Pens &amp; Support Structures</i>	18	<b>Car Wash (5 Min. &amp; Coin-Op)</b>	18
<b>Archery Equipment Mfg.</b>	12	<b>Cash Machines</b>	24
<b>Artwork</b>	(Value at Cost)	<b>Cash Registers &amp; Scanners</b>	24
<b>Auto Repair</b>	(also see Service Stations)	<b>Cell/wireless telephone tower (tower only)</b>	7.5
<i>Diagnostic Equipment (Electronic)</i>	24	<b>Cell/wireless telephone tower (with antennae)</b>	12
<i>M&amp;E</i>	18	<b>Cell/wireless telephone antennae (antennae only)</b>	24
<i>Small Tools</i>	24	<b>Cement, Clay &amp; Brick Products Mfg.</b>	** 7.5
<i>Welding Equipment</i>	12	<b>Chemical Products Mfg.</b>	** 7.5

# INDEX TO PERSONAL PROPERTY VALUATION INDICATORS

For January 1, 2002 Valuations

## BUSINESS ACTIVITY OR TYPE OF BUSINESS

Use Trend I from Combined Table unless Trend II is indicated below

	Trend/Column		Trend/Column
<b>Clothing Mfg.</b>	8	<i>Crawler</i>	10
<b>Cocktail Bars &amp; Taverns</b>	19	<i>Mobile Telescopic</i>	16
<i>Antique Back Bars</i>	(Value at Cost)		
<b>Coin-Op Lockers</b>	16	- D -	
<b>Coin-Op Machines</b>	24		
<b>Computer Systems (Business)</b>		<b>Dairy Milking M&amp;E</b>	14
<i>Lotto Machines</i>	30	<b>Dairy Processing</b>	** 7.5
<i>Main Frame Computers, Disk Array and other Storage</i>		<b>Data Processing Equipment</b>	30
<i>Devices, and Network servers</i>	30	<b>Dental</b>	
<i>Personal Computers (Including desktop and/or laptop</i>		<i>Equipment</i>	14
<i>computers and peripheral/connected hardware. E.g.</i>		<i>Furniture &amp; Fixtures</i>	14
<i>Scanner, printer and multifunction digital</i>		<i>Libraries</i>	12
<i>printer/scanner/fax machine combo. Etc.)</i>	II/38.5	<i>X-Ray Equipment</i>	18
<i>Canned Software</i>	A	<b>Department Store F&amp;F</b>	16
<i>Custom Software</i>	A	<b>Dies &amp; Molds</b>	18
<i>Production Systems Computers (with direct electronic link to</i>		<i>Electronic Mfg.</i>	24
<i>longer lived equipment.)</i>	24	<i>Patterns</i>	24
<b>Computer Numeric Controlled (CNC) Milling</b>		<b>Dispensing Machinery (Coin-Op)</b>	24
<b>Machines</b>	14	<b>Distilling &amp; Brewing</b>	** 7.5
<b>Construction M&amp;E</b>		<b>Doctors</b>	
<i>Cranes</i>		<i>Equipment</i>	14
<i>Bridge</i>	8	<i>Furniture</i>	14
<i>Crawler</i>	10	<i>Libraries</i>	12
<i>Mobile Telescopic</i>	16	<i>Diagnostic Equipment (CT, MRI, Ultrasound, etc.)</i>	24
<i>General Construction</i>	16	<i>X-Ray</i>	12
<i>Asphalt Plants</i>		<b>Drug Store F&amp;F</b>	16
<i>Portable</i>	18	<b>Dry Cleaning &amp; Laundry M&amp;E</b>	
<i>Stationary</i>	12	<i>Coin-Op</i>	24
<i>Land Clearing</i>	16	<i>Other Than Coin-Op</i>	14
<i>Licensed Vehicles Not Subject to Vehicle</i>		<b>Dumpsters, Garbage</b>	16
<i>Excise Tax</i>	16	- E -	
<i>Marine Construction</i>			
<i>Ships &amp; Vessels (production line)</i>	*** 7.5	<b>Electrical Generating</b>	
<i>Ships &amp; Vessels (portable equipment)</i>	12	<i>Gas &amp; Diesel</i>	16
<i>Pleasure Craft</i>	12	<i>Steam</i>	** 7.5
<i>Boat Molds</i>	22	<b>Electrical Mfg. M&amp;E</b>	12
<i>Road Construction (Heavy)</i>	22	<b>Electronic Equip</b>	24
<i>Rock Crushing</i>		<b>High Tech Manufacturing M &amp; E</b>	
<i>Portable</i>	18	<i>Printed Circuit Board M&amp;E</i>	II/30
<i>Stationary</i>	12	<i>Silicon Wafer Fabrication M&amp;E</i>	II/25
<i>Sewer &amp; Utilities</i>	16	<i>Product Assembly M&amp;E</i>	II/25
<i>Well Drilling</i>	16	<i>Process Support Equipment &amp; Piping</i>	II/15
<b>Container Mfg. M&amp;E</b>	** 7.5	<b>Espresso Carts</b>	24
<b>Coolers (walk-in)</b>	12	<b>Extrusion M&amp;E</b>	** 7.5
<b>Copy Machines (Purchased)</b>	28		
<b>Costumes (Rental)</b>	24		
<b>Cranes</b>			
<i>Bridge</i>	8		
<i>Container</i>	*8		

# INDEX TO PERSONAL PROPERTY VALUATION INDICATORS

For January 1, 2002 Valuations

## BUSINESS ACTIVITY OR TYPE OF BUSINESS

Use Trend I from Combined Table unless Trend II is indicated below

	Trend/Column		Trend/Column
<b>- F -</b>		<i>Product Assembly M&amp;E</i>	II/25
		<i>Process Support Equipment &amp; Piping</i>	II/15
<b>Farm Equipment</b>	(See Agriculture)	<b>Hospitals</b>	
<b>Fax Machines</b>	30	<i>Equipment</i>	16
<b>Feed Mill M&amp;E (production line)</b>	*** 7.5	<i>Diagnostic Equipment(CT,MRI,Ultrasound,etc)</i>	24
<b>Feed Mill M&amp;E (portable)</b>	12	<i>Laboratory Equip. (Nonelectric)</i>	18
<b>Fertilizer Applicators</b>	24	<i>Laboratory Equip. (Electronic &amp; Computerized)</i>	24
<b>Fertilizer Mfg.</b>	** 7.5	<i>Mattresses</i>	30
<b>Fiberglass Molds (other than boats)</b>	22	<i>X-Ray</i>	/II2
<b>Fish Processing M&amp;E (production line)</b>	*** 7.5		
<b>Fish Processing M&amp;E (portable)</b>	12	<b>- I -</b>	
<b>Fitness Equipment</b>		<b>Ice Cream Cabinets</b>	16
<i>Manual</i>	16	<b>Ice &amp; Refrigeration Machinery</b>	** 7.5
<i>Electronic</i>	24	<b>Iron &amp; Steel Industry</b>	** 7.5
<b>Flour, Cereal &amp; Grain Milling</b>	** 7.5		
<b>Food Processing</b>	** 7.5	<b>- J -</b>	
<b>Forklifts</b>		<b>Janitorial Service Equipment</b>	20
<i>Inside</i>	14	<b>Jewelry Store F F and Equip.</b>	16
<i>Outside</i>	16		
<b>Foundry</b>	** 7.5	<b>- K -</b>	
<b>Fraternal Lodges</b>	14	<b>Key Duplication</b>	16
<b>- G -</b>		<b>- L -</b>	
<b>Garage M&amp;E</b>	18	<b>Laboratories</b>	
<b>Garbage Dumpsters</b>	16	<i>Diagnostic</i>	24
<b>General Contractor M&amp;E</b>	16	<i>Equipment (Non-electric)</i>	18
<b>Golf Courses</b>		<i>Equipment (Electronic &amp; Computerized)</i>	24
<i>Carts</i>	20	<b>Landscaping M&amp;E</b>	16
<i>Equipment</i>	18	<b>Laundry &amp; Dry Cleaning</b>	
<i>Tractors</i>	12	<i>Coin-Op</i>	24
<b>Greenhouse &amp; Nursery M&amp;E</b>	16	<i>Other Than Coin-Op</i>	14
<b>Grocery Stores</b>		<b>Law Libraries</b>	12
<i>Cash Registers &amp; Scanners</i>	24	<b>Leather Products Mfg. M&amp;E</b>	8
<i>Fixtures &amp; Equipment</i>	16	<b>Libraries (Professional)</b>	12
<i>Meat Packing</i>	12	<b>Lift Trucks</b>	(See Forklift)
<i>POS (Point of Sale Computer Systems)</i>	30	<b>Lotto Machines</b>	30
<i>Walk-in Coolers</i>	12	<b>Lumber &amp; Wood Products</b>	
		<i>Logging M&amp;E</i>	18
<b>- H -</b>		<i>Log Stackers</i>	18
<b>Hardware Store F&amp;F</b>	16	<i>Pulp, Paper &amp; Paperboard</i>	** 7.5
<b>Hatchery M&amp;E</b>	16	<i>Plywood &amp; Veneer</i>	** 7.5
<b>Health Spa Equip.</b>		<i>Scarifying M&amp;E</i>	18
<i>Manual</i>	16	<i>Sawmills</i>	
<i>Electronic</i>	24	<i>Portable</i>	14
<b>High Tech M&amp;E</b>		<i>Stationary</i>	** 7.5
<i>Printed Circuit Board M&amp;E</i>	II/30		
<i>Silicon Wafer Fabrication M&amp;E</i>	II/25		



# INDEX TO PERSONAL PROPERTY VALUATION INDICATORS

For January 1, 2002 Valuations

## BUSINESS ACTIVITY OR TYPE OF BUSINESS

Use Trend I from Combined Table unless Trend II is indicated below

	Trend/Column		Trend/Column
<b>- M -</b>		<i>Safes</i>	10
<b>Machine Shop M&amp;E (production)</b>	*** 7.5	<i>Sound Systems (Background)</i>	24
<b>Machine Shop M&amp;E (not part of production line, such as lathes)</b>	12	<b>Oxygen &amp; Acetylene Tanks</b>	10
<b>Mailing Machines</b>	20	<b>- P -</b>	
<b>Meat Packing M&amp;E</b>	12	<b>P.A. Systems</b>	20
<b>Meat Processing (Complex)</b>	** 7.5	<b>Packing &amp; Sorting M&amp;E (Fruit, Vegetable, Etc.)</b>	12
<b>Medical Equipment</b>	14	<i>The following rates may be applied if the taxpayer can document costs to mechanical vs. electronic equipment</i>	
<b>Metal Fabrication &amp; Extrusion Mfg.</b>	*** 7.5	<i>Mechanical portion of the line equipment</i>	10
<b>Metal Sheet Fabrication (production line)</b>	*** 7.5	<i>Electronic portion of the line equipment</i>	24
<b>Metal Sheet Fabrication (not part of prod. line)</b>	12	<b>Paint &amp; Varnish Mfg. M&amp;E</b>	12
<b>Milling Machines - Computer</b>		<b>Pallets, Crates, Lugs, Bins, Etc.</b>	18
<b>Numeric Controlled (CNC)</b>	14	<b>Petroleum Products</b>	
<b>Mining &amp; Milling</b>	** 7.5	<i>Bulk Station Equipment</i>	14
<b>Mobile Yard Equipment</b>	16	<i>Refining</i>	** 7.5
<b>Mortuary Service Equip.</b>	14	<i>Service Station Equipment</i>	(See Service Stations)
<b>Motels</b>		<b>Photography Equipment</b>	16
<i>Furniture &amp; Equipment</i>	19	<b>Plastic Extrusion M&amp;E</b>	** 7.5
<i>Office</i>	(See Office)	<b>Plumbing Shop Equipment</b>	16
<i>Restaurant &amp; Bar Equipment</i>	19	<b>Plywood &amp; Veneer Mfg.</b>	** 7.5
<i>Telephone Systems</i>	30	<b>Pool Hall Equipment</b>	14
<i>TV's</i>	24	<b>Power &amp; Generation M&amp;E</b>	
<i>VCR's</i>	28	<i>Gas &amp; Diesel</i>	16
<b>Music Instruments -- Rental</b>	22	<i>Steam</i>	** 7.5
<b>Music Studio Recording Equip.</b>	24	<b>Printing &amp; Publishing Equipment</b>	(See Newspaper)
<b>Music Systems (Background)</b>	24	<b>Professional Equipment</b>	
<b>- N -</b>		<i>Scientific, Doctors, Dentists, Etc.</i>	14
<b>Neon Signs</b>	19	<i>Libraries</i>	12
<b>Newspaper M&amp;E</b>		<b>Propane Tanks</b>	12
<i>Press</i>	10	<b>Pulp &amp; Paper Mfg.</b>	** 7.5
<i>Photographic</i>	16	<b>- R -</b>	
<i>Computer (Production)</i>	24	<b>Radio &amp; Television</b>	
<i>Other M&amp;E</i>	14	<i>Broadcasting Equipment</i>	19
<b>Nursing Homes</b>		<i>C.A.T.V. (Cable System)</i>	(See C.A.T.V. Equipment)
<i>Furniture &amp; Fixtures</i>	16	<i>Service &amp; Repair Equip.</i>	19
<i>Mattresses</i>	30	<i>Towers</i>	12
<b>- O -</b>		<b>Radio-Telephone Equipment 2-Way</b>	24
<b>Office Equipment</b>		<b>Railroad Rolling Stock-Private</b>	(Except Logging Cars) 12
<i>Antiques</i>	(Value at Cost)	<b>Rental Equipment</b>	
<i>Copy Machines (Purchased)</i>	28	<i>Costumes</i>	24
<i>Electric &amp; Electronic Machines</i>	24	<i>Public U-Rent (Excluding Heavy Equipment)</i>	22
<i>Furniture &amp; Fixtures</i>	14	<i>Heavy Equipment</i>	(Value by type)
<i>Mailing Machines</i>	20	<i>Telephones (Residential)</i>	30
		<i>Tuxedos</i>	30
		<b>Research &amp; Development M&amp;E</b>	* 20

# INDEX TO PERSONAL PROPERTY VALUATION INDICATORS

For January 1, 2002 Valuations

## BUSINESS ACTIVITY OR TYPE OF BUSINESS

Use Trend I from Combined Table unless Trend II is indicated below

	Trend/Column		Trend/Column
<b>Restaurants, Soda Fountains &amp; Drive-Ins</b>	19		- T -
<i>Walk-in Coolers</i>	12		
<b>Retail Stores</b>		<b>Tanning Salon Equip.</b>	16
<i>Fixtures</i>	16	<b>Tavern &amp; Bar Equipment</b>	19
<i>Office F &amp; F</i>	(See Office Equip.)	<i>Antique Back Bars</i>	(Value at Cost)
<i>POS Computer Systems</i>	30	<b>Television &amp; Radio</b>	(See Radio)
<i>Public Address Systems</i>	20	<b>Telephones</b>	
<i>Sound Systems (Background)</i>	24	<i>Cellular</i>	30
<b>Rock Crushers</b>	(See Construction)	<i>Pagers</i>	24
	- S -	<i>Rentals (Commercial &amp; Residential)</i>	30
<b>Sawmills</b>	(See Lumber)	<i>Systems (Customer Owned)</i>	30
<b>Scaffolding (Rental)</b>	22	<i>Cell/wireless telephone tower (tower only)</i>	7.5
<b>Search Lights</b>	18	<i>Cell/wireless telephone tower (with antennae)</i>	12
<b>Service Stations</b>		<i>Cell/wireless telephone antennae (antennae only)</i>	24
<i>Dispensers (Gas)</i>	20	<b>Textile Tent &amp; Awning Mfg. M&amp;E</b>	8
<i>Equipment</i>	18	<b>Theater</b>	
<i>Store F &amp; F</i>	16	<i>Projection Equipment</i>	16
<b>Sewing Equipment</b>	12	<i>F&amp;F</i>	18
<b>Sewer Construction Equipment</b>	16	<b>Tire Recapping</b>	14
<b>Sheet Metal Fabrication (production line)</b>	*** 7.5	<b>Title Plants</b>	A
<b>Sheet Metal Fabrication (not part of prod. line)</b>	12	<b>Tuxedo Rentals</b>	30
<b>Shipbuilding</b>	(See Construction)	<b>Toilets, Portable</b>	14
<b>Shoes &amp; Leather Products Mfg. M&amp;E</b>	8		- U -
<b>Shipyards</b>	(See Construction)	<b>Unlicensed and licensed Vehicles including Trailers</b>	
<b>Signs</b>		<i>(permanently sited and/or not primarily designed for use on</i>	
<i>Bulletin Boards</i>	14	<i>public streets and highways)</i>	16
<i>Billboards</i>	A	<b>Upholstery Equipment</b>	16
<i>Electronic</i>	15		- V -
<i>Neon</i>	19		
<i>Plastic Illuminated</i>	19	<b>VCR's</b>	28
<i>Poster Panels</i>	A	<b>Vending Machines</b>	24
<b>Ski Areas</b>		<b>Video Games</b>	A
<i>Snow Cats &amp; Packers</i>	24	<b>Video Tapes</b>	A
<i>Tows &amp; Lifts</i>	** 7.5	<b>Video Cameras/Camcorder</b>	24
<b>Ski Mfg. Equipment</b>	12		- W -
<b>Small Tools - Perishable</b>	24		
<b>Smelting</b>	** 7.5	<b>Warehouse Equipment (Including Lifts)</b>	14
<b>Soft Drink Mfg. M&amp;E (Batch)</b>	14	<i>Pallets, Crates, Lugs, Bins, etc.</i>	18
<b>Sound Systems (Background)</b>	24	<b>Water Softeners</b>	14
<b>Super Markets</b>		<b>Water Systems</b>	12
<i>Cash Registers &amp; Scanners</i>	24	<b>Welding Shop Equip.</b>	12
<i>Fixtures &amp; Equipment</i>	16	<b>Well Drilling</b>	16
<i>Meat Packing</i>	12	<b>Winery Equipment (production line, incl. Tanks &amp; bottling</b>	
<i>POS Computer Systems</i>	30	<i>line)</i>	*** 7.5
<i>Public Address Systems</i>	20		
<i>Walk-in Coolers</i>	12		
<b>Surveying Equipment</b>	14		

# INDEX TO PERSONAL PROPERTY VALUATION INDICATORS

*For January 1, 2002 Valuations*

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## BUSINESS ACTIVITY OR TYPE OF BUSINESS

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Use Trend I from Combined Table unless Trend II is indicated below

	Trend/Column	Trend/Column
Winery Equipment (portable, such as pumps)	14	
<i>Aging Barrels</i>	A	
<i>Innerstaves</i>	A	
Wireless/Cell telephone tower (tower only)	7.5	
Wireless /Cell telephone tower (with antennae)	12	
Wireless/Cell telephone antennae (antennae only)	24	
Wholesale Store	14	
Woodworking Shops M&E	12	

- X -

<b>X-Ray Equip.</b> ( <i>Other Than Dental</i> )	* 12
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\* -- May Require Special Consideration Due to Functional or Economic Conditions

\*\* -- Use Industrial Valuation Schedule on all Plant M&E

\*\*\* -- Major Items of Equipment - Use 7.5% M&E Average Industrial Valuation or Personal Property Column/Schedule. The determination to use this schedule requires judgement from Appraiser or Auditor, based on the use and Expected Economic Life of the equipment/property. Inspection of M&E is highly recommended.

A -- Use Supplemental Valuation Schedule

# SUPPLEMENTAL VALUATION SCHEDULE

<b>VIDEO GAMES</b> (Apply the following percent good to the un-trended historical cost)		
Year 1	Year 2	Year 3
60%	37%	20%

<b>VIDEO TAPES LASER DISKS &amp; DVDS</b>
Value at \$9 per tape/Disk

<b>WOODEN (Oak) WINE BARRELS AND INNERSTAVES</b> (Reference BTA Docket 54989, 2/1/2001) (Apply the following percent good to the un-trended historical cost)					
	Year 1	Year 2	Year 3	Year 4	Year 5 or more
Barrels (purchased for Storage)	55%	25%	15%	8%	5%
Barrels (purchased for flavoring)	Exempt	Exempt	Exempt	Exempt	Exempt
Innerstaves (purchased for flavoring)	Exempt	Exempt	Exempt	Exempt	Exempt

<b>BILLBOARDS &amp; POSTER PANELS</b>	
Type of Sign	Current Replacement Cost Per Lineal Foot
Unlighted	\$131
Externally Lighted	\$164
Internally Lighted	\$314
Above replacement costs include one support structure and one face. Multiple faced signs should be adjusted to eliminate a support structure for each additional face as follows:	
Type of Sign	Deduction From Replacement Cost
Lighted / Unlighted 12 x 25'	\$1,045
Lighted / Unlighted 14 x 48'	\$2,635
Lighted / Unlighted 20 x 60'	\$4,077
Signs smaller than 12 x 25' use 40% of above deduction.	
DEPRECIATION -- 4% straight line per year based on effective age to 20% of replacement cost.	

<b>TITLE PLANTS</b> (Reference PTB 72-14)	
\$2.50 per parcel (as defined)	\$0.15 per recording (as defined)

<b>COMPUTER SOFTWARE</b>
<p>The 1991 Legislature defined computer software and established valuation methods. Custom Software is exempt. For the 2002 assessment year, canned software shall be assessed as illustrated in the following example:</p> <ul style="list-style-type: none"> <li>• Canned software acquired in 2001 shall be valued at 100% of its full acquisition cost.</li> <li>• Canned software acquired in 2000 shall be listed at 100% and valued at 50% of its full acquisition cost.</li> <li>• All software, canned or custom, purchased prior to 2000 is exempt.</li> <li>• Embedded software is taxable and shall be valued as an integral part of the computer system, machinery or equipment in which it is housed, at the established life of the equipment.</li> </ul>

**COMBINED TABLE**  
**2002 PERSONAL PROPERTY VALUATION PERCENT GOOD INDICATORS**

(Use 2% as minimum value for Personal Computers & Attached Peripherals that are **in use** and 20% for other asset/asset groups **in use** unless otherwise indicated. Additional depreciation for obsolescence may also apply.)

			Declining Balance Rate													Computer & Peripherals and High Tech M&E				
AGE	YEAR	TREND I	30.0%	28.0%	24.0%	22.0%	20.0%	19.0%	18.0%	16.0%	14.0%	12.0%	10.0%	8.0%	7.5%	TREND II	38.5%	30.0%	25.0%	15.0%
Economic Life (Years)*			4.5	5.0	6.0	6.5	7.5	8.0	8.5	9.5	11.0	13.0	15.5	19.5	21.0		6.0	8.0	10.0	10.0
1	2001	100.0	70.0	72.0	76.0	78.0	80.0	81.0	82.0	84.0	86.0	88.0	90.0	92.0	92.5	100.0	61.5	70.0	75.0	85.0
2	2000	100.6	49.3	52.2	58.1	61.2	64.4	66.0	67.6	71.0	74.4	77.9	81.5	85.1	86.1	92.3	34.9	45.2	51.9	66.7
3	1999	101.1	34.7	37.7	44.4	48.0	51.8	53.7	55.7	59.9	64.3	68.9	73.7	78.7	80.0	79.8	18.6	27.4	33.6	49.0
4	1998	101.7	24.4	27.3	33.9	37.6	41.7	43.8	46.0	50.6	55.6	61.0	66.7	72.9	74.5	66.5	9.5	16.0	21.1	34.7
5	1997	102.9	20.0	20.0	26.1	29.7	33.7	35.9	38.1	43.0	48.4	54.3	60.8	67.8	69.7	57.3	5.0	9.6	13.6	25.4
6	1996	104.9			20.2	23.6	27.5	29.6	31.9	36.9	42.4	48.7	55.7	63.6	65.7	49.9	2.7	5.9	8.9	20.0
7	1995	107.4			20.0	20.0	22.5	24.6	26.8	31.7	37.4	43.9	51.4	59.9	62.2	45.7	2.0	5.0	6.1	
8	1994	109.1					20.0	20.2	22.3	27.0	32.6	39.2	47.0	56.0	58.5	41.9			5.0	
9	1993	111.0						20.0	20.0	23.1	28.6	35.1	43.0	52.4	55.0	35.6				
10	1992	113.1								20.0	25.0	31.5	39.4	49.1	51.9	29.3				
11	1991	115.9									22.1	28.4	36.4	46.3	49.2	26.8				
12	1990	119.9									20.0	25.9	33.9	44.1	47.0	24.2				
13	1989	125.2										23.8	31.8	42.3	45.4	22.0				
14	1988	129.1										21.6	29.5	40.2	43.3	20.2				
15	1987	131.2										19.3	27.0	37.6	40.7	18.6				
16	1986	133.3										17.2	24.7	35.1	38.3	17.3				
17	1985	136.0										15.5	22.7	33.0	36.1					
18	1984	138.9										13.9	20.8	31.0	34.1					
19	1983	142.9										12.6	19.3	29.3	32.5					
20	1982	150.9										11.7	18.3	28.5	31.7					
21	1981	164.9										11.3	18.0	28.6	32.1					
22	1980	187.3					Packing & Sorting M&E Minimum Value,						11.3	18.4	29.9	33.7				
23	1979	204.2					Declines to 10% in columns 10 and 12						10.8	18.1	30.0	34.0				
24	1978	220.1					Most other property declines to 20%.						10.2	17.6	29.8	33.9				
25	1977	234.2										10.0	16.8	29.1	33.4					
26	1976	248.4											16.0	28.4	32.7					
27	1975	286.3											16.6	30.1	34.9					
28	1974	327.6											17.1	31.7	36.9					
29	1973	339.8											16.0	30.3	35.4					
30	1972	347.1											14.7	28.5	33.5					
31	1971	359.1											13.7	27.1	32.0					
32	1970	375.7											12.9	26.1	31.0					

\* Economic Life calculated, rounded to the next half year, using Declining Balance Rate and Salvage/Residual value percentage of 20% for all assets except Computer & Peripherals and High Tech M&E with DB Rates above 15.0%, which are calculated at 6.25%. Minimum value percent good factors vary as shown in each column.

If a percent good factor lower than the minimum % good factor is deemed appropriate, a factor may be calculated by multiplying the rate on the depreciation table by the trend factor for the year of acquisition. Example: An asset acquired in 1985 that a 16% depreciation rate is appropriate for indicates a percent good factor of 5.2% times 136.0% for a combined factor/indicator (percent good) of 7.1%.

### **DEPRECIATION TABLE -- PERCENT GOOD FACTORS (WITHOUT TREND)**

(Use this table when Reproduction or Replacement Cost New (RCN) is Known as of Assessment Year -- Apply Trend and Depreciation when Original/Historical Cost is Known or Use the Appropriate Combined Table)

AGE	YEAR	38.5%	30.0%	28.0%	25.0%	24.0%	22.0%	20.0%	19.0%	18.0%	16.0%	15.0%	14.0%	12.0%	10.0%	8.00%	7.50%
1	2001	61.5%	70.0%	72.0%	75.0%	76.0%	78.0%	80.0%	81.0%	82.0%	84.0%	85.0%	86.0%	88.0%	90.0%	92.0%	92.5%
2	2000	37.8%	49.0%	51.8%	56.3%	57.8%	60.8%	64.0%	65.6%	67.2%	70.6%	72.3%	74.0%	77.4%	81.0%	84.6%	85.6%
3	1999	23.3%	34.3%	37.3%	42.2%	43.9%	47.5%	51.2%	53.1%	55.1%	59.3%	61.4%	63.6%	68.1%	72.9%	77.9%	79.1%
4	1998	14.3%	24.0%	26.9%	31.6%	33.4%	37.0%	41.0%	43.0%	45.2%	49.8%	52.2%	54.7%	60.0%	65.6%	71.6%	73.2%
5	1997	8.8%	16.8%	19.3%	23.7%	25.4%	28.9%	32.8%	34.9%	37.1%	41.8%	44.4%	47.0%	52.8%	59.0%	65.9%	67.7%
6	1996	5.4%	11.8%	13.9%	17.8%	19.3%	22.5%	26.2%	28.2%	30.4%	35.1%	37.7%	40.5%	46.4%	53.1%	60.6%	62.6%
7	1995	3.3%	8.2%	10.0%	13.3%	14.6%	17.6%	21.0%	22.9%	24.9%	29.5%	32.1%	34.8%	40.9%	47.8%	55.8%	57.9%
8	1994	2.0%	5.8%	7.2%	10.0%	11.1%	13.7%	16.8%	18.5%	20.4%	24.8%	27.2%	29.9%	36.0%	43.0%	51.3%	53.6%
9	1993	1.3%	4.0%	5.2%	7.5%	8.5%	10.7%	13.4%	15.0%	16.8%	20.8%	23.2%	25.7%	31.6%	38.7%	47.2%	49.6%
10	1992	0.8%	2.8%	3.7%	5.6%	6.4%	8.3%	10.7%	12.2%	13.7%	17.5%	19.7%	22.1%	27.9%	34.9%	43.4%	45.9%
11	1991	0.5%	2.0%	2.7%	4.2%	4.9%	6.5%	8.6%	9.8%	11.3%	14.7%	16.7%	19.0%	24.5%	31.4%	40.0%	42.4%
12	1990	0.3%	1.4%	1.9%	3.2%	3.7%	5.1%	6.9%	8.0%	9.2%	12.3%	14.2%	16.4%	21.6%	28.2%	36.8%	39.2%
13	1989	0.2%	1.0%	1.4%	2.4%	2.8%	4.0%	5.5%	6.5%	7.6%	10.4%	12.1%	14.1%	19.0%	25.4%	33.8%	36.3%
14	1988	0.1%	0.7%	1.0%	1.8%	2.1%	3.1%	4.4%	5.2%	6.2%	8.7%	10.3%	12.1%	16.7%	22.9%	31.1%	33.6%
15	1987	0.1%	0.5%	0.7%	1.3%	1.6%	2.4%	3.5%	4.2%	5.1%	7.3%	8.7%	10.4%	14.7%	20.6%	28.6%	31.1%
16	1986		0.3%	0.5%	1.0%	1.2%	1.9%	2.8%	3.4%	4.2%	6.1%	7.4%	9.0%	12.9%	18.5%	26.3%	28.7%
17	1985		0.2%	0.4%	0.8%	0.9%	1.5%	2.3%	2.8%	3.4%	5.2%	6.3%	7.7%	11.4%	16.7%	24.2%	26.6%
18	1984		0.2%	0.3%	0.6%	0.7%	1.1%	1.8%	2.3%	2.8%	4.3%	5.4%	6.6%	10.0%	15.0%	22.3%	24.6%
19	1983		0.1%	0.2%	0.4%	0.5%	0.9%	1.4%	1.8%	2.3%	3.6%	4.6%	5.7%	8.8%	13.5%	20.5%	22.7%
20	1982		0.1%	0.1%	0.3%	0.4%	0.7%	1.2%	1.5%	1.9%	3.1%	3.9%	4.9%	7.8%	12.2%	18.9%	21.0%
21	1981		0.1%	0.1%	0.2%	0.3%	0.5%	0.9%	1.2%	1.5%	2.6%	3.3%	4.2%	6.8%	10.9%	17.4%	19.5%
22	1980			0.1%	0.2%	0.2%	0.4%	0.7%	1.0%	1.3%	2.2%	2.8%	3.6%	6.0%	9.8%	16.0%	18.0%
23	1979			0.1%	0.1%	0.2%	0.3%	0.6%	0.8%	1.0%	1.8%	2.4%	3.1%	5.3%	8.9%	14.7%	16.6%
24	1978					0.1%	0.3%	0.5%	0.6%	0.9%	1.5%	2.0%	2.7%	4.7%	8.0%	13.5%	15.4%
25	1977					0.1%	0.2%	0.4%	0.5%	0.7%	1.3%	1.7%	2.3%	4.1%	7.2%	12.4%	14.2%
26	1976					0.1%	0.2%	0.3%	0.4%	0.6%	1.1%	1.5%	2.0%	3.6%	6.5%	11.4%	13.2%
27	1975					0.1%	0.1%	0.2%	0.3%	0.5%	0.9%	1.2%	1.7%	3.2%	5.8%	10.5%	12.2%
28	1974						0.1%	0.2%	0.3%	0.4%	0.8%	1.1%	1.5%	2.8%	5.2%	9.7%	11.3%
29	1973						0.1%	0.2%	0.2%	0.3%	0.6%	0.9%	1.3%	2.5%	4.7%	8.9%	10.4%
30	1972						0.1%	0.1%	0.2%	0.3%	0.5%	0.8%	1.1%	2.2%	4.2%	8.2%	9.6%
31	1971							0.1%	0.1%	0.2%	0.4%	0.6%	0.9%	1.9%	3.8%	7.5%	8.9%
32	1970							0.1%	0.1%	0.2%	0.4%	0.6%	0.8%	1.7%	3.4%	6.9%	8.3%
33	1969							0.1%	0.1%	0.1%	0.3%	0.5%	0.7%	1.5%	3.1%	6.4%	7.6%
34	1968							0.1%	0.1%	0.1%	0.3%	0.4%	0.6%	1.3%	2.8%	5.9%	7.1%
35	1967								0.1%	0.1%	0.2%	0.3%	0.5%	1.1%	2.5%	5.4%	6.5%
36	1966								0.1%	0.1%	0.2%	0.3%	0.4%	1.0%	2.3%	5.0%	6.0%
37	1965									0.1%	0.2%	0.2%	0.4%	0.9%	2.0%	4.6%	5.6%
38	1964									0.1%	0.1%	0.2%	0.3%	0.8%	1.8%	4.2%	5.2%
39	1963										0.1%	0.2%	0.3%	0.7%	1.6%	3.9%	4.8%
40	1962										0.1%	0.2%	0.2%	0.6%	1.5%	3.6%	4.4%

Note: Xerox Copiers are typically valued using this table because Xerox provides RCN data.